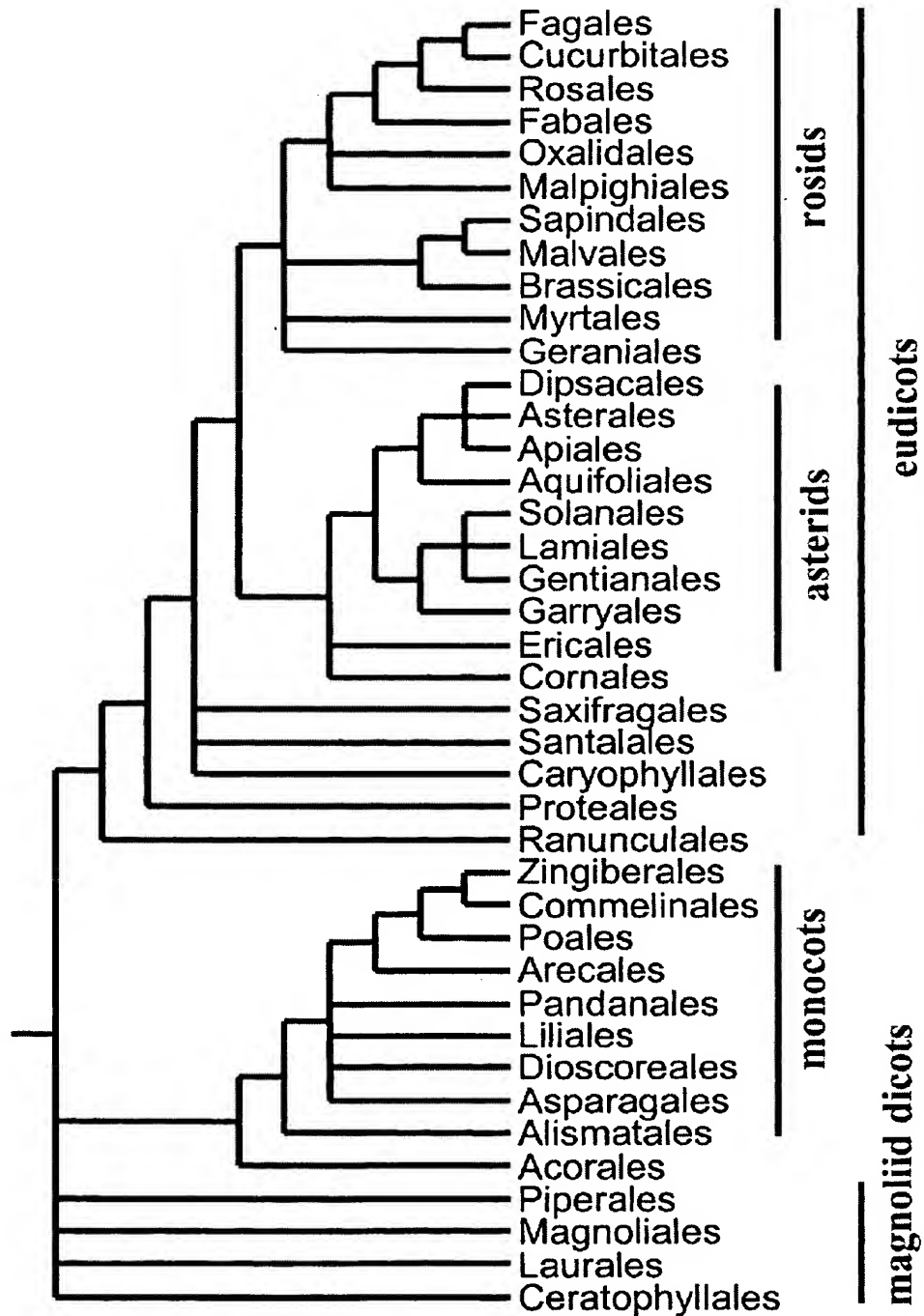




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**FIG. 1**

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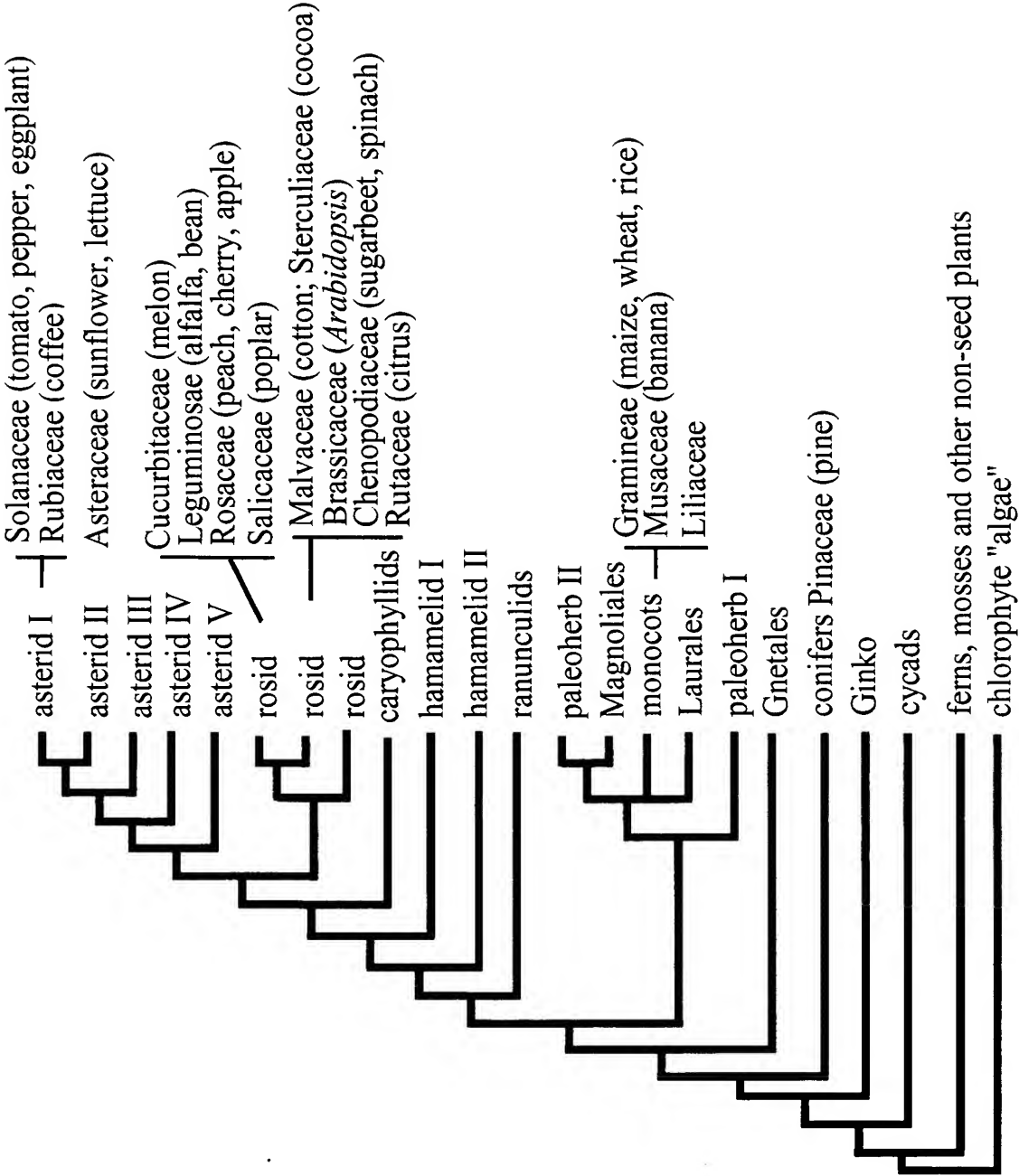


FIG. 2

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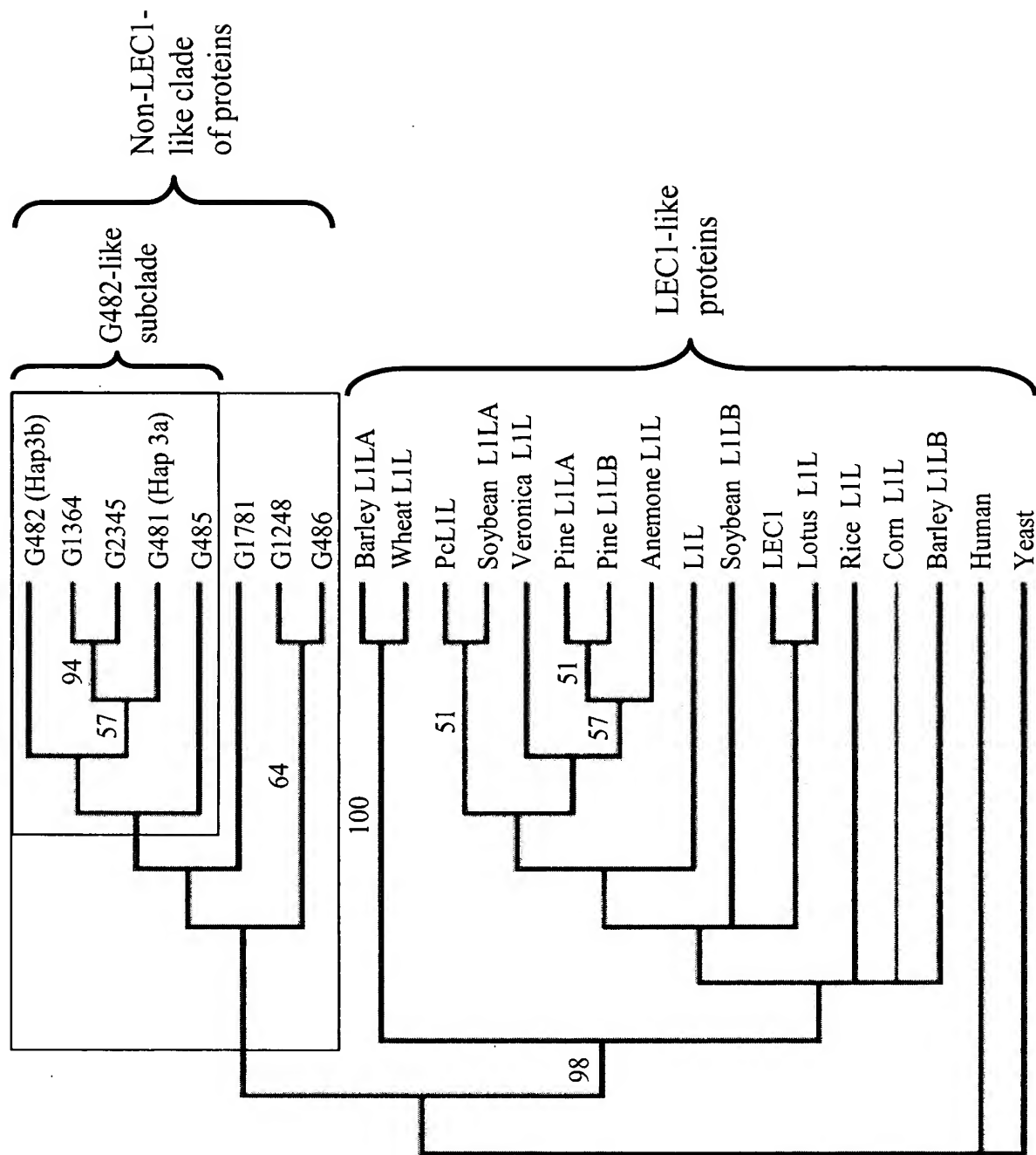


FIG. 3

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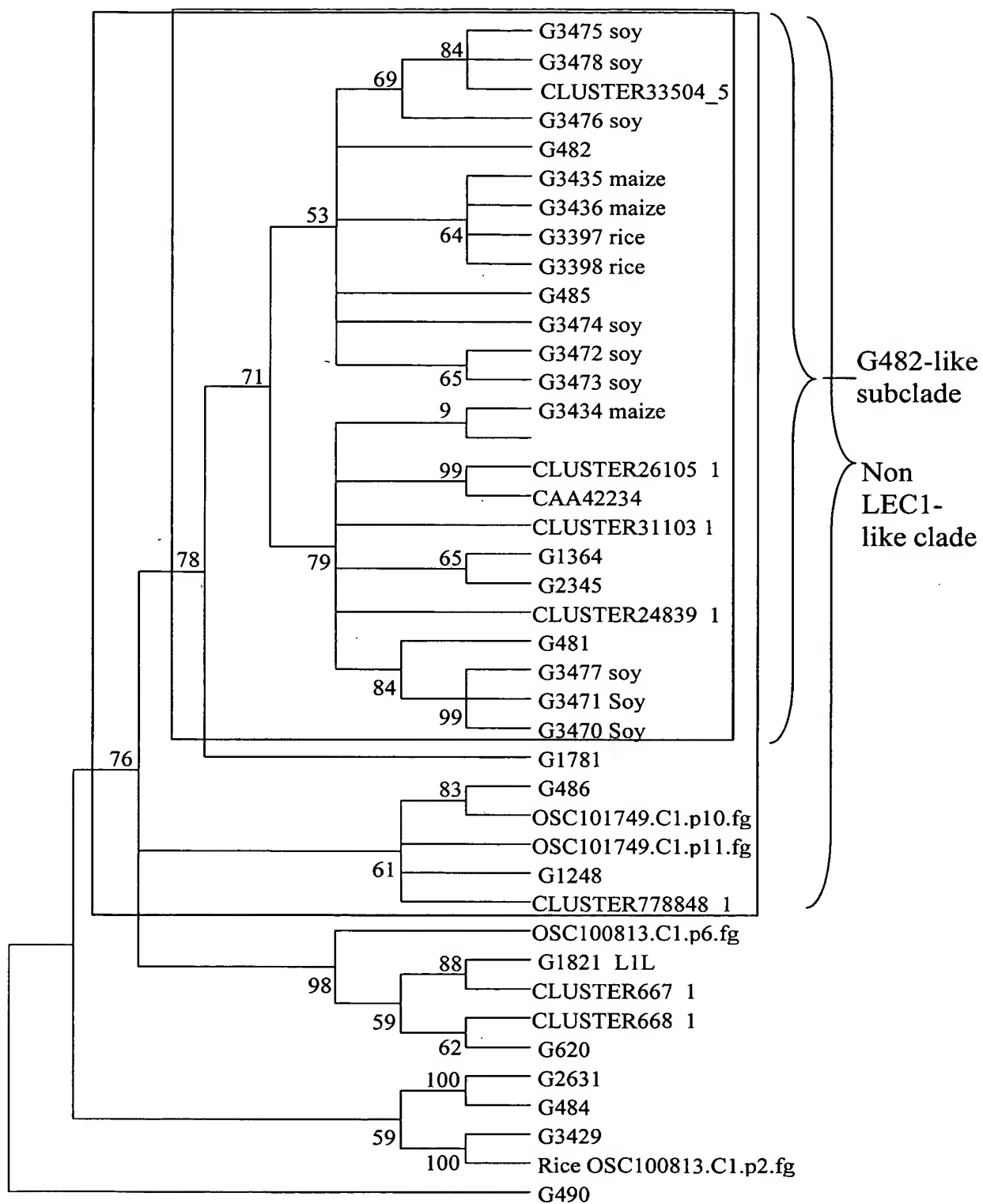


FIG. 4

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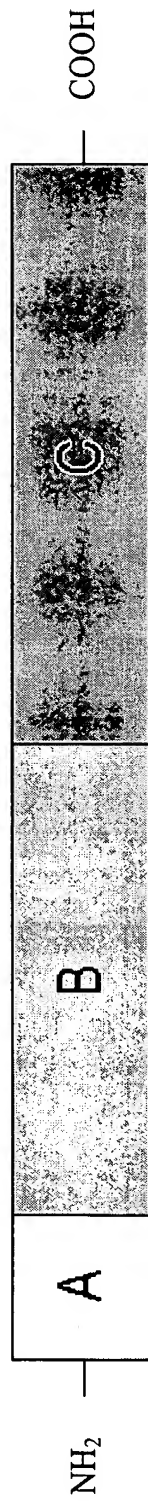


FIG. 5

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G3472	MAES	-----DNESGGHTGNASGN-----
G3473	MADS	-----DNDSGGAHNGGKGS-----
G3474	MAES	-----DNESGGHTGNASGN-----
G3435	MPDS	-----DNDSGGPSN-AGG-----
G3397	MPDS	-----DNDSGGPSNYAGG-----
G3436	MPDS	-----DNESGGPSN--A-----
G3398	MPDS	-----DNESGGPSN--AG-----
G3475	MADS	-----DNDSGGAHNAGKG-----
G3478	MADS	-----DNDSGGAHNGGKG-----
G3476	MAES	-----DNDSGGAQNAAGNSGNL-----
G485	MADS	-----DNDSGGCHKDGGN-----
G482	MGDS	-----DRDSGGQNGNNQNGQ-----
OSC30077	MKSRKSYGHLLSPVGPPL	-----DNESGEAAAAAAGGGCGSSAGYVVYGG
G3471	MSDAPPSP	-----THESGGEQSPRGSS-----
G3477	MSDAPASP	-----SHESGGEQSPRGSL-----
G3470	MSDAPASP	-----SHESGGEQSPRGSL-----
G481	MADTPSSP	-----AGD-GGESG-----
G1364	MAESQAKSP	-----GGCGSHESGGDQSPR-----
G2345	MAESQTGG	-----GGGSHESGGDQSPR-----
AP004366	MADA	-----GHDESGSPPRSGGVR-----
G3434	MADD	-----GGSHESGSG-GGGGVR-----
G3394	MADGPGSPG	-----GGGSHESGSPRGGGGGGG-----
G1781	MTEESPEEDHGSPGVAETNP	-----GSPSSKTNNNNN-----
G1248	MAGNYHSFQNP	-----IPRYQNYNFGSSSSNHQHEHDLVV-----VVEDQ
G486		-----
G1821	MAEGSMRPP	-----EFNQPNKTSNGGEE-----
Consensus	M D	GG

FIG. 6A

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	DNA binding domain	Subunit interaction
G3472	---EFGCREQDRFLPIANVSRIMKKALPANAKISKEAKETVQECVSEFISFIT-GEASD	↓
G3473	---EMS-PREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFISFHSPPGGLAG	
G3474	---ELSGCREQDRFLPIANVSRIMKKALPANAKISKEAKETVQECVSEFISFIT-GEASD	
G3435	---ELSSPREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFISFIT-GEASD	
G3397	---ELSSPREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFISFIT-GEASD	
G3436	---EFSSPREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFISFIT-GEASD	
G3398	---EYASAREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFISFIT-GEASD	
G3475	---SEMSPREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFISFIT-GEASD	
G3478	---SEMSPREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFISFIT-GEASD	
G3476	---SELSPREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFISFIT-GEASD	
G485	---ASTREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFISFIT-GEASD	
G482	---SSLSPREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFISFVT-GEASD	
OSC30077	GGGDSPAKEQDRFLPIANVSRIMKRSALPANAKISKESKETVQECVSEFISFVT-GEASD	
G3471	---SG-AREQDRYLPANISRIMKKALPPNGKIAKDAKDTMQECVSEFISFIT-SEASE	
G3477	---SGAAREQDRYLPANISRIMKKALPPNGKIAKDAKDTMQECVSEFISFIT-SEASE	
G3470	---SGAAREQDRYLPANISRIMKKALPPNGKIAKDAKDTMQECVSEFISFIT-SEASE	
G481	---GSVREQDRYLPANISRIMKKALPPNGKIGKDAKDTVQECVSEFISFIT-SEASD	
G1364	---SLHVREQDRFLPIANISRIMKRGLPANGKIAKDAKEIVQECVSEFISFVT-SEASD	
G2345	---SLNVREQDRFLPIANISRIMKRGPLNGKIAKDAKETMQECVSEFISFVT-SEASD	
AP004366	-----EQDRFLPIANISRIMKKAVPANGKIAKDAKETLQECVSEFISFVT-SEASD	
G3434	-----EQDRFLPIANISRIMKKAVPANGKIAKDAKETLQECVSEFISFVT-SEASD	
G3394	---GGGGLVREQDRFLPIANISRIMKKAIIPANGKIAKDAKETVQECVSEFISFIT-SEASD	
G1781	-----NNKEQDRFLPIANVGRIMKKVLPNGKISKDAKETVQECVSEFISFVT-GEASD	
G1248	QQEESMMVKEQDRLLLPANVGRIMKNILPANAKVSKEAKETMQECVSEFISFVT-GEASD	
G486	-----MTDEDRLLLPANVGRIMKQILPSNAKISKEAKQTVQECATEFISFVT-CEASE	
G1821	-----ECTVREQDRFMPIANVIRIMRRILPAHAKISDDSKETIQECVSEYISFIT-GEANE	
Consensus	EQDRFLPIANVSRIMK ALPANAKISKDAKETVQECVSEFISFIT GEASD	

FIG. 6B ↑ B domain

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G3472	KCQKEKRKTINGDDLLWAMTTTLGFEEYVEPLKVYLHKYRELEGEKTMAMG----
G3473	ECQKEKRKTINGDDLLWAMTTTLGFEEYVEPLKVYLHKYRELEGEKTMAMG----
G3474	KCQKEKRKTINGDDLLWAMTTTLGFEDYVDPLKIYHLHKYREMEGEKTMAMG----
G3435	KCQREKRKTINGDDLLWAMTTTLGFEDYVEPLKHYLHKFFREIEGERAAASAGASGSQQ--
G3397	KCQREKRKTINGDDLLWAMTTTLGFEDYVDPLKHYLHKFFREIEGERAAASTTGAGTSAA--
G3436	KCQREKRKTINGDDLLWAMTTTLGFEDYVEPLKLYLHKFFRELEGEKAA TTSASSGPPLH
G3398	KCQREKRKTINGDDLLWAMTTTLGFEDYIDPLKLYLHKFFRELEGEKAI GAAGSGGGAASS
G3475	KCQREKRKTINGDDLLWAMTTTLGFEDYVEPLKGYLQRFREMEGEKTVAAAR-----
G3478	KCQREKRKTINGDDLLWAMTTTLGFEDYVEPLKGYLQRFREMEGEKTVAAAR-----
G3476	KCQREKRKTINGDDLLWAMTTTLGFEEYVEPLKIYLRFRMEGEKTVAAAR-----
G485	KCQREKRKTINGDDLLWAMTTTLGFEDYVEPLKVYLQKYREVEGEKTTTAGR-----
G482	KCQKEKRKTINGDDLLWAMTTTLGFEDYVEPLKVYLQRFREIEGERTGLGRP-----
OSC30077	KCQREKRKTINGDDLLWAMTTTLGFEEYVGPLKSYLNRYREAEGEKADVLGGAGAAARH
G3471	KCQKEKRKTINGDDLLWAMATLGFEDYIEPLKVYLARYREAEGDTKGSARS-----
G3477	KCQKEKRKTINGDDLLWAMATLGFEDYIEPLKVYLARYREAEGDTKGSARS-----
G3470	KCQKEKRKTINGDDLLWAMATLGFEDYIEPLKVYLARYREAEGDTKGSARS-----
G481	KCQKEKRKTVNGDDLLWAMATLGFEDYLEPLKIYLRARYRELEGDNKGSGKS-----
G1364	KCQREKRKTINGDDLLWAMATLGFEDYMEPLKVYLMRYRE--GDTKGSAGK-----
G2345	KCQREKRKTINGDDLLWAMATLGFEDYIDPLKVYLMRYREMEGDTKGSKG-----
AP004366	KCQKEKRKTINGEDLLFAMGTLGFEEYVDPLKIYHLHKYREMEGDSKLSSKA-----
G3434	KCQKEKRKTINGDDLLWAMATLGFEEYVEPLKIYLRKYKEMEGDSKLSTKA-----
G3394	KCQREKRKTINGDDLLWAMATLGFEDYIEPLKVYLQKYREMEGDSKLSTAKA-----
G1781	KCQREKRKTINGDDIIWAITTLGFEDYVAPLKVYLCKYRDTEGEKVNSPKQ-----
G1248	KCHKEKRKTVNGDDICWAMANLGFDDYAAQLKKYLHRYRVLEGEKPN-----
G486	KCHRENKTVNGDDIWWALSTGLDNYADAVGRHLHKYREAERERTEHNKG-----
G1821	RCQREQRKTTAEDVLWAMSKLGFDDYIEPLTLYLHRYRELEGERGVSCSAG-----
Consensus	<u>KCQREKRKTINGDDLLWAMTTTLGFEDY EPLKVYL YRE EGE</u>

B domain

FIG. 6C

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G3472	-----RPHERDEGYGH-----ATPMM-IMMGHQ-----
G3473	-----RPHERDEGYGH-----ATPMM-IMMGHQ-----
G3474	-----RPHERDEGYGHG-----HATPMTMMMGHPQHQQH-----
G3435	--QQQELPRGAANAAG-YAGYGAPG-----SG-GMMMMMMGQPMYGSQPQ--
G3397	--STTPPQQHTANAAGGYAGYAAPG-----AGPGGMMMMMGQPMYGSPPP--
G3436	RETTSSSTHN--GAGGPVGGYMGGA-----GGSGMIMMMGQPMYGGSPPA--
G3398	GGSGSGSHHHQDASRNNGGYMGY-----GGGMIIMMMGQPMYG-SPPA--
G3475	--DKDAPPPTNATNSAYESPAAAA-----PGGIMMHQGHVYG-----
G3478	--DKDAPPLTNATNSAYESANYAAAA-----AVPGGIMMHQGHVYG-----
G3476	--DSSK--DSASASSY-----HOGHVYG-----
G485	--QGDKEGGGGGAGSGSGGAPMYG-----GGMVTTMGHQFS-----
G482	--QTGGEVGEHQDVAVDGGGFYGG-----GGMQYHQHHQFL-----
OSC30077	GGGCGGGGGGADGVVLDGHYPLAGGLSHSHGHQDGGDGLMMGGDAGVGNAG
G3471	--GDGSATPD-QVGLAGQNSQLVHQ-----SLNYIGLQVQP-----
G3477	--GDGSATPD-QVGLAGQNSQLVHQ-----SLNYIGLQVQP-----
G3470	--GDGSARPD-QVGLAGQNAQVQPQX-----SG-YAFNARP-----
G481	--GDGSNRDA-GGVSGEEMPSW-----
G1364	--GDPNAKKDQSSQNGQFSQLAHQ-----PYGNSQ-----
G2345	--GESSAKRDGQPSQVSQFSQVPQQG-----SFSQGPYGNSQSLRFGNSIEH
AP004366	--GDGSVKKDTIGPHSGASSSSAQG-----MVGAYTQGMGY-----
G3434	--GEGSVKKDAISPHGGTSSSSNQLV-----QHGVTYNQGMGY-----
G3394	--GDGSVKKDVLSHGSGSSSAQGMG-----QQAAYNQGMGY-----
G1781	--QQRRQQQQQIQQQNHNNYQFEQDQNNNN-----MSCTSYISHHHPSPFLPVDHQ-
G1248	-----HHGKG-----
G486	--SNDSGNEKE-----TNTRS-----
G1821	--SVSMTNGLVVKRPNGTMTTEYGAYG-----PVPGIHMAQYHYR-----

FIG. 6D

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G3472 -----QQQHQG--HVGSGTT-----TGSASSARTR-----
G3473 -----QQQHQG--HVGSGTT-----TGSASSARTR-----
G3474 -----QHQHQG--HVGSG-----GSASSARTR-----
G3435 --QPPQPQPPQPPQHQQHHMMAMGGRGGFGQQ--GGGGSSSSSGLGRQDRA-----
G3397 -----PPQQQQQH--HHMAMGGRGGFGHHPPGGGGSSSSSGHGRQNRGA-----
G3436 --ASSG-----SYPHH--QMAMGKGAYGYGGSSSSPS--GLGR-----
G3398 --SSAGYAQPPPHHHH--QVMGKG-AYHGCGGGGSPSSGYGRQDRL-----
G3475 -----SAGFH--QVAGGAIK-----GPPVPPGPGSNAGRPR-----
G3478 -----SAGFH--QVAGGAIK-----GPPAYPPGPGSNAGRPR-----
G3476 -----SPAYH--HQVP-----GPTYAPG--RPR-----
G485 -----HHFS-----
G482 -----HQNHMYGATGGGSDS-----GGAASGRTRT-----
OSC30077 AGSTTTAFYAPAATAASGNKAYCGGDSRVMEFEGIGEEESGGGGGERGFAGHLHGV
G3471 -----QHLVMPMQSHE-----
G3477 -----QHLVMPMQSHE-----
G3470 -----
G481 -----
G1364 -----VTFPLFSSHSSN-----THH--SLLIC-----
G2345 LEVLMSSSTRTLFTIFRDSTMPVVSLENLSDPLSIDMDCEAIYHHFIGLLILSCK-----
AP004366 -----MQPQSNFHILVVLQSFAPFMYQVAQIYCKYPSIE-----
G3434 -----MQPQ-----YHNGET-----
G3394 -----MQPQ-----YHNGDVSN-----
G1781 -----PPFNIAFSPKSLQKQ-----FPQQHDNNIDSIHW-----
G1248 -----GPKSSP-----DN-----
G486 -----DVQNQSTK-----FIRVVEKGSSSSAR-----
G1821 -----HQNGFVFSGNEPNKMSGSSSGASGARVEVFPTQQHKY-----

FIG. 6E

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G3472	-----
G3473	-----
G3474	-----
G3435	-----
G3397	-----
G3436	-----
G3398	-----
G3475	-----
G3478	-----
G3476	-----
G485	-----
G482	-----
OSC30077	QWFR LKRNTN
G3471	-----
G3477	-----
G3470	-----
G481	-----
G1364	-----
G2345	-----
AP004366	-----
G3434	-----
G3394	-----
G1781	-----
G1248	-----
G486	-----
G1821	-----

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FIG. 6F

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Drought treatment
(8 days)

Re-watered after drought

Wild-type



FIG. 7A



FIG. 7B

35S::G481
Line 3

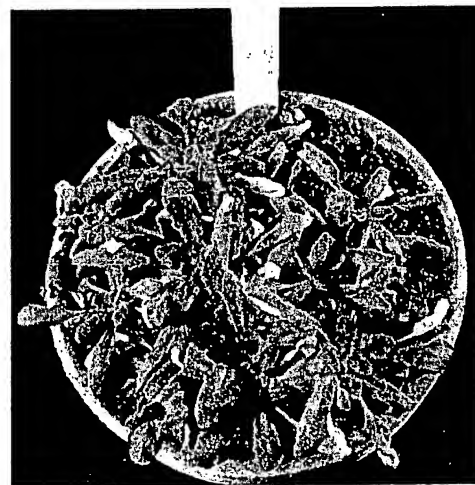


FIG. 7C

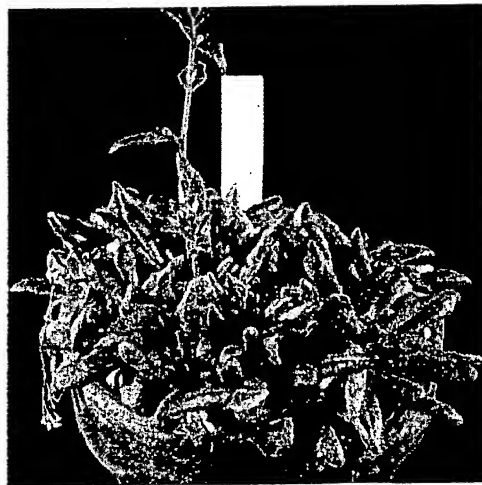


FIG. 7D

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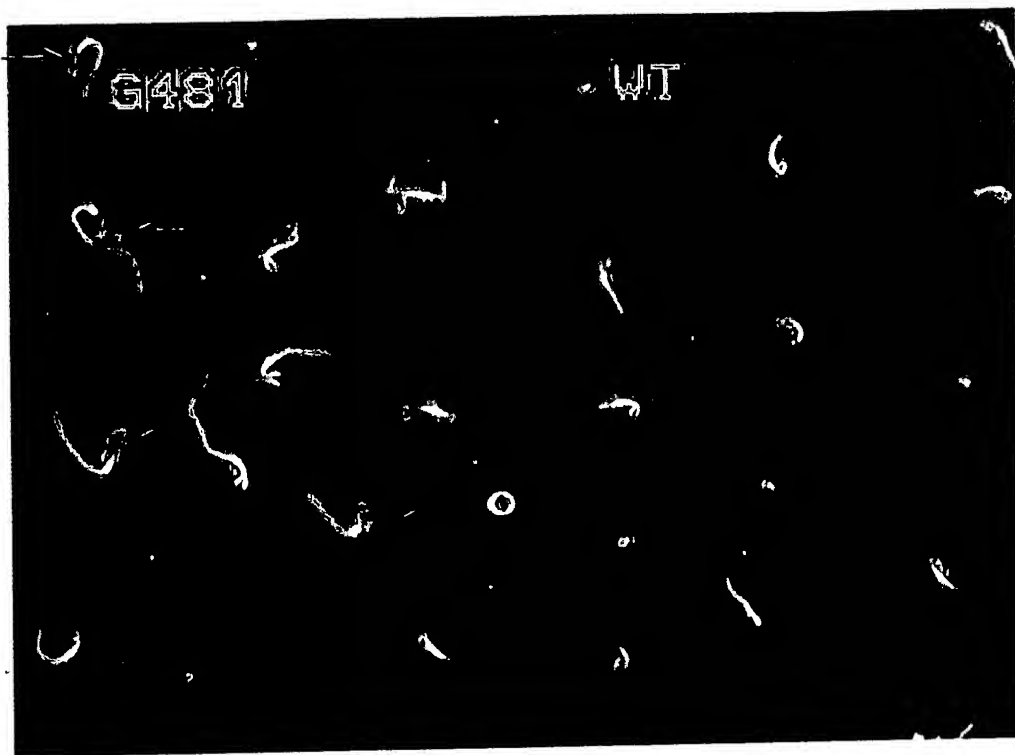


FIG. 8A

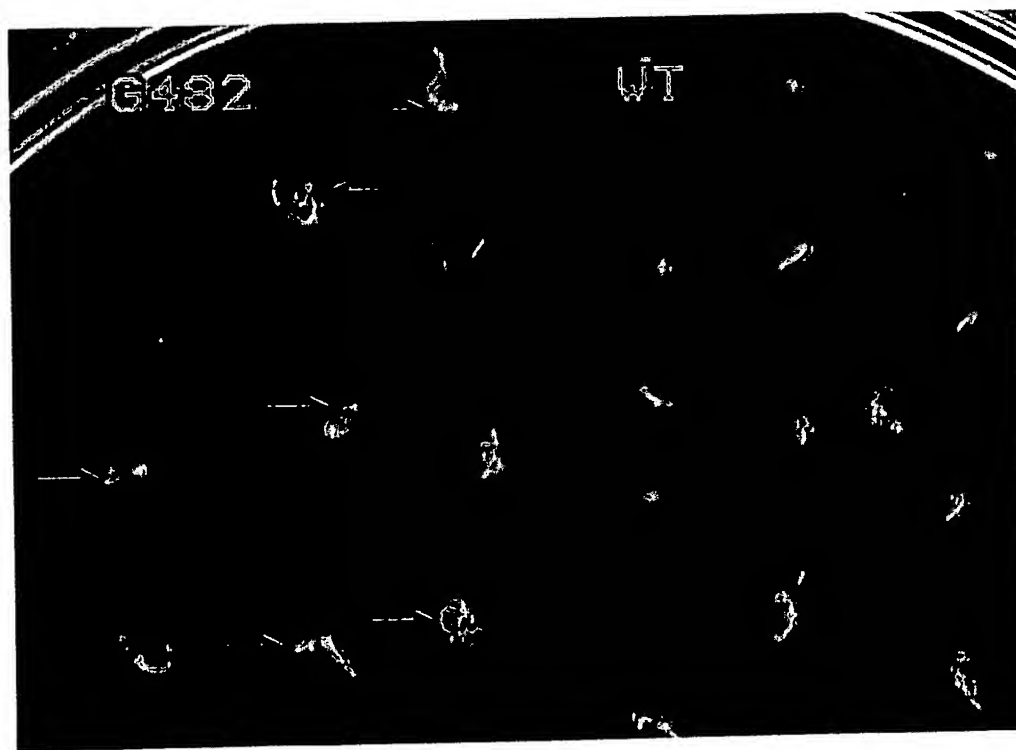


FIG. 8B

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FIG. 9A



FIG. 9B



FIG. 9C



FIG. 9D

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Cold

Treatment



FIG. 10A

Sucrose

Treatment



FIG. 10B

NaCl

Treatment



FIG. 10C

ABA

Treatment

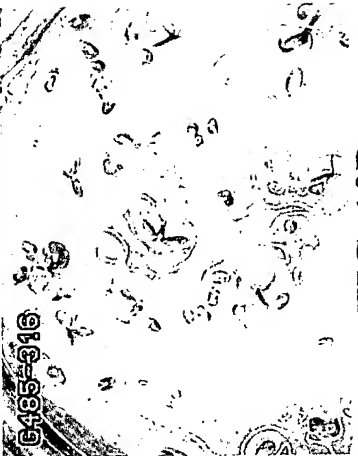


FIG. 10D

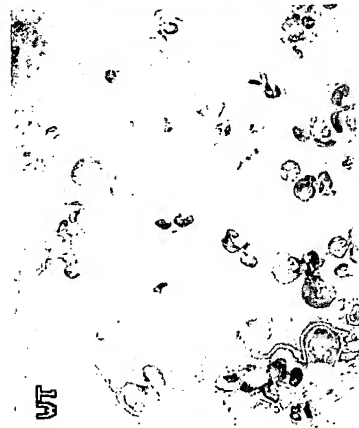


FIG. 10E



FIG. 10F



FIG. 10G



FIG. 10H

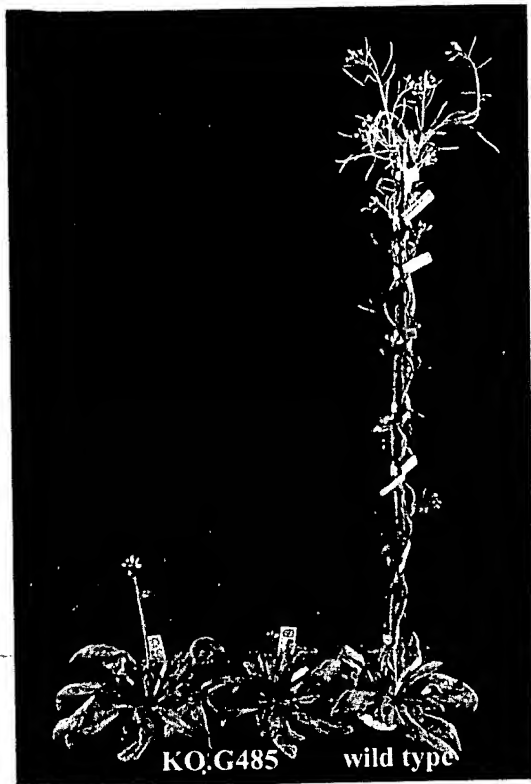


FIG. 11A



FIG. 11B

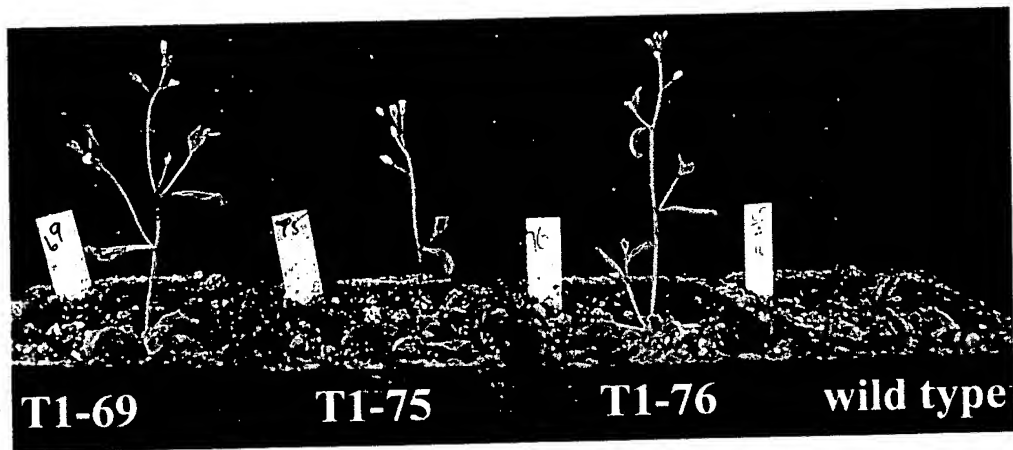


FIG. 11C

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